

J. F. McCORMICK.
SAD IRON.
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1,065,954.

Patented July 1, 1913.

Fig. 1.

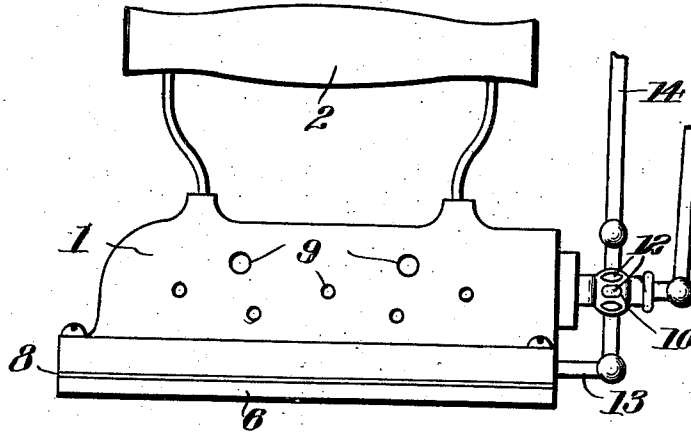


Fig. 2.

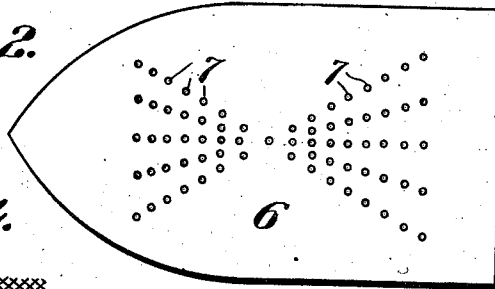


Fig. 4.

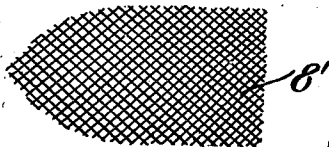
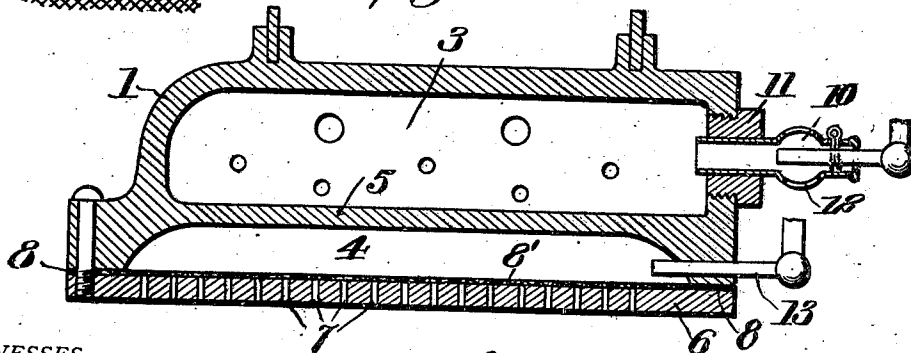


Fig. 3.



WITNESSES

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SAD-IRON.

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To all whom it may concern:

Be it known that I, JOSEPH F. McCORMICK, a citizen of the United States, residing at Mount Vernon, in the county of Knox and State of Ohio, have invented certain new and useful Improvements in Sad-Irons, of which the following is a specification.

This invention relates to sad-irons, and more particularly to that class known as self heating irons.

The object of the invention is to produce an iron that is easy to operate and cheap to construct.

Another object of the invention is to produce a self heating iron, that moistens and will not burn the material.

Another object of the invention is to produce a gas self heated iron that generates steam for moistening the material to be pressed.

Another object of the invention is to produce a self heating iron that can be constructed of castings, thereby saving cost in manufacture.

The details of construction and the combination of parts to attain these objects, will be more fully set forth in the accompanying drawing forming a part of this specification, in which:

Figure 1, is a side view of my improved self heating sad-iron, Fig. 2, is a plan view of the bottom of my improved iron, Fig. 3, is a longitudinal sectional view of my invention, and Fig. 4 is a plan view on a reduced scale of the wire screen employed.

Like numerals of reference designate corresponding parts in the several figures of the drawings.

My improved sad-iron comprises a hollow body portion 1, to which is attached the handle 2. The body 1, contains a heating chamber 3, and a steam generating chamber 4, the chambers 3 and 4, being separated by a partition 5. The steam generating chamber 4, is closed on its under side by a plate 6, containing perforations 7. A gasket 8, is inserted between the plate 6 and the surrounding edges of the chamber 4. The body portion 1, is provided with a plurality of ventilating openings 9, leading from the chamber 3, to the atmosphere. Resting on plates 6 is a wire screen designated 8'.

The iron is heated by means of a burner 10, extending through a bushing 11, in the

rear wall of the body 1. The burner 10, is of the Bunsen type, and air is admitted to the same through openings 12, in the burner.

Water is admitted in small quantities into the chamber 4, by means of a pipe 13, extending through the rear wall of the sad iron, and the pipe 13, may be connected by a valved flexible conduit from any suitable water supply. A valved gas supply pipe 14, is connected to the burner 10, for the purpose of supplying fuel to the burner.

The operation of my invention, is as follows. The iron is heated by the burner, said heat getting the body portion of the iron very hot and especially the dividing wall 5, this creates an intense heat in the steam generating chamber 4. Water is allowed to flow continuously but in a small quantity into the chamber 4, directly onto the wire screen 8', being generated into steam by the heat contained therein. The steam goes out through the perforations 7, in the bottom of the sad iron, the steam moistening the material being ironed or pressed. The steam thus forced out will prevent the iron from burning the fabric being operated upon, and will not make the action of the iron any the less effective. The ventilating ports 9 prevent over heating and keep an even temperature in the heat chamber 3, thereby producing a constantly regular steam supply. In addition to this these ports provide a rapid cooling means, after the iron has been used and the heat shut off. The water will be prevented by the capillary attraction between the same and the wire screen, from flowing from the steam chamber onto a garment before conversion into steam.

I do not desire to limit myself to the exact construction shown in the drawings, but reserve the right to use such changes in the construction as those skilled in the art may make without departing from the spirit of my invention.

Having thus described my invention what I claim is,

1. A sad-iron provided with a body having a heating chamber, means to supply fuel to the said chamber, a steam chamber, means to supply water thereto, a partition intermediate said chambers, a perforated bottom-plate below said steam chamber, and a wire screen above said plate onto which the water is directly discharged.

2. A sad-iron provided with a body hav-

ing a heating chamber, said body provided
with ventilation openings at said chamber,
means to supply fuel to said chamber, a
steam chamber, means to supply water
5 thereto, a partition intermediate said cham-
bers, a removable bottom-plate, fastening
members therefor engaging the body, and a

wire screen above said plate onto which the
water is directly discharged.

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Witnesses:

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